

Amendments to the Specification:

After the title and before the first paragraph, please insert the following paragraph:

THIS APPLICATION IS A U.S. NATIONAL PHASE APPLICATION OF PCT INTERNATIONAL APPLICATION PCT/JP2003/07064.

Please delete the paragraph, beginning at page 4, line 1

Please replace the paragraph, beginning at page 4, line 8, with the following rewritten paragraph:

A distortion compensator of the invention ~~for solving the problem~~ is characterized by configuring a coefficient computing section, by a fixed coefficient storing section and an error coefficient computing section, to compute a characteristic reverse to an input/output characteristic of the power amplifier. The fixed coefficient storing section is previously stored with the characteristic reverse to a pre-measured input/output characteristic. The error coefficient computing section computes an error coefficient between a characteristic stored in the fixed coefficient storing section and a current characteristic of the power amplifier. Because of satisfactorily measuring an error, the number of coefficient updates is reduced as compared to that of a configuration having only a coefficient measuring section.